

Notice of Allowability

Application No.

09/816,010

Applicant(s)

LONG, DEAN R.E.

Examiner

Sam Rimell

Art Unit

2165

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Interview of 8/24/05.
2. ☒ The allowed claim(s) is/are 1-25.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).


* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date 8/24/05.
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.


Sam Rimell
Primary Examiner
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An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with John Griffith on August 24, 2005.

Claim 8: (Amended) An object based computing system, the object based computing system comprising:

- a memory, the memory including a plurality of address locations;
- at least one thread;

- a plurality of objects, the plurality of objects including at least one object which is accessible to the at least one thread, wherein each of the plurality of objects is associated with a corresponding address of the plurality of address locations;

- at least one lock, the at least one lock being accessible to the at least one object and being held by at least one locking thread, wherein the at least one lock can be released such that the object is not locked by any locking thread in response to a determination that the at least one locking thread is the same thread as the at least one thread; and

- a data structure, the data structure being arranged to associate the at least one lock with at least one corresponding address location selected from the plurality of address locations, wherein the data structure is arranged to be accessed by the at least one thread using a first value associated with the at least one object to identify the at least one lock.

Claim 17: (Amended) A data structure for use in a multi-threaded object-based computing system, the data structure being arranged to be stored in a memory of the computing system, the data structure comprising:

- A plurality of index values; and

- A plurality of lock identifiers, each lock identifier included in the plurality of lock identifiers being arranged to identify an associated lock in the computing system, wherein the

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plurality of lock identifiers [is] are associated with corresponding index values included in the plurality of index values;

wherein the associated lock is held by a thread, and the associated lock can be released such that an object associated with the lock is not locked by any lock held by a thread in response to a determination that a requesting thread is also the thread that is holding the associated lock.